

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1-2. Canceled.

3. (Currently Amended) ~~The apparatus of claim 1~~ An aging apparatus of a field emission device provided with a scan driving unit and a panel, the apparatus comprising:

an aging operation controlling unit for performing an aging operation by controlling a high voltage of a pulse form applied to an anode electrode of the panel and a voltage applied to the scan driving unit, wherein the aging operation controlling unit comprises:

a power controlling unit for applying a power to the scan driving unit by an external power control signal;

a pulse generating unit for receiving an external pulse control signal and thereby outputting a pulse signal having a corresponding frequency and a duty cycle;

a high voltage applying unit for receiving a pulse signal from the pulse generating unit, converting a direct current high voltage into an alternating current high voltage of a pulse form, and thereby applying to the anode electrode; and

a program controlling unit for detecting a voltage and a current applied to the anode electrode of the panel from the high voltage applying unit, comparing the detected current

value with a preset limitation current value, and outputting a pulse control signal and a power control signal to the pulse generating unit and the power controlling unit, respectively.

4. (Original) The apparatus of claim 3, wherein the program controlling unit and the power controlling unit, the program controlling unit and the pulse generating unit, and the program controlling unit and the high voltage applying unit are connected to each other by a universal interface bus.

5. (Original) The apparatus of claim 3, wherein the high voltage applying unit comprises a switching means for receiving a pulse signal from the pulse generating unit, switching a direct current high voltage into an alternating current high voltage of a pulse form, and thereby outputting.

6. (Original) The apparatus of claim 5, wherein the switching means is a high voltage relay which is switching-controllable as a ms unit, or a semiconductor device which is switching-controllable as a μ s unit.

7. (Original) The apparatus of claim 3, wherein the program controlling unit detects a current fed back from the anode electrode thus to output a pulse control signal for performing an off operation for the high voltage applying unit or stops a program when the current fed back

from the anode electrode overflows than a preset limitation current, and controls the power controlling unit thus to output a control signal for stopping a voltage supply to the scan driving unit.

8. (Original) The apparatus of claim 3, wherein the program controlling unit or the high voltage applying unit include an inner memory for storing a timing setting value, a high voltage setting value, a gradient setting value, a limitation current setting value, and etc. for the direct current high voltage.

9-12. Canceled.

13. (Currently Amended) ~~The method of claim 12~~ An aging method of a field emission device provided with a scan driving unit and a panel, the method comprising:
a pre-aging for switching a direct current high voltage applied to an anode electrode of the panel and thereby outputting as an alternating current high voltage of a pulse form; and
a main aging for controlling a voltage applied to the scan driving unit, wherein the pre-aging method comprises the steps of:

_____ converting a gradually increasing direct current high voltage applied to an anode electrode into an alternating current high voltage of a pulse form by an external pulse signal and thereby applying;

_____ detecting a current and a voltage generated at the time of applying the pulse high voltage, comparing the detected current value with a preset limitation current value, and performing an off operation for the high voltage applied to the anode electrode when the detected current value is greater than the preset limitation current value;

_____ judging whether a high voltage applied to the anode electrode is a preset maximum value when the detected current value is less than a preset limitation current value, and applying an increased pulse high voltage to the anode electrode when the high voltage applied to the anode electrode is less than the preset maximum value; and

_____ judging whether a high voltage applied to the anode electrode is a preset maximum value, maintaining the pulse high voltage when the high voltage is greater than the preset maximum value, and thereby applying to the anode electrode.

14. (Original) The method of claim 13, wherein a direct current high voltage having preset time, gradient, and limitation current value is converted into a high voltage of a pulse form by an on/off switching means corresponding to an external pulse signal and thereby applied to the anode electrode in the step of converting into the alternating current pulse high voltage and thereby applying .

15. (Original) The method of claim 13, wherein the field emission device is operated in a state that the pulse high voltage having the maximum value is maintained (that is, pre-aging), and the power controlling unit applies a power to the scan driving unit thus to perform a current aging (that is, main aging) for the field emission device.

16. Canceled.